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for the U.S. Department of Energy

date: Friday, February 15, 2002

Memo

to: T. Sheridan

from: D. I. Lowenstein



subject: Request for Two Accelerator Readiness Reviews (ARRs)

The C-AD is requesting that you commence two ARR's on the dates given below. We feel the same ARR team could handle these two ARR's efficiently. The two accelerator readiness reviews are for:

ARR 1 - Commissioning and Operation of the Booster Slow Extraction, Booster Dump/Catcher at D Section, Booster Applications Facility (BAF) Beamline and Target Area Using Beams From Either Linac or TVDG, and Commissioning and Operation of BAF Support Buildings

ARR 2 - Operation of TTB Line With Low Mass Ions and Operation of RHIC With Deuterons

ARR 1 should begin August 1, 2002. I note that for the purpose of allowing sufficient time for the ARR Committee's validation effort, two separate commissioning modules and one operations module are envisioned for ARR 1:

- The first ARR 1 module should start August 1, 2002 and is for achieving readiness for Booster Slow Extraction, Booster Dump, and BAF Line commissioning. It is planned that the ARR committee complete their report on or about September 1, 2002.
- The second ARR 1 module should start January 1, 2003 and is for commissioning experimental equipment at the BAF. It is planned that the ARR complete their report for this module on or about February 1, 2003.
- The third ARR 1 module should start March 1, 2003 and is for achieving readiness for routine operation of Booster Slow Extraction, Booster Dump and the BAF with associated experiments. It is planned that the ARR complete their final report on or about April 1, 2003.

I attach the BAF Commissioning and Acceptance Plan that contains more detail about our Departmental approach to preparing for the ARR.

ARR 2 should begin September 1, 2002. The ARR should be able to review a limited set of changes to TVDG/TTB operations and recommend deuteron operation in TTB and RHIC by October 1, 2002. I plan on getting DOE approval for operation of TTB with low-mass ions and RHIC with deuterons by November 1. The limited changes to TTB/TVDG are upgraded shielding and upgraded engineered safety system for radiation protection. The documents that address deuteron-running mode are the draft Accelerator Safety Envelope (ASE) for TVDG/TTB and Unreviewed Safety Issue (USI) 3 for the TTB.

I attach the Acceptance Plan for operation with deuterons that contains more detail about our Departmental approach to preparing for the ARR.

The BAF SAD and draft ASE for BAF are available via the web, as are USI3 for TTB and the draft ASE for TVDG/TTB. These documents have been reviewed and recommended for approval by the Laboratory Environmental, Safety and Health Committee. I note that these documents have been previously forwarded to the DOE Brookhaven Area Office. They are available on the C-AD intranet and access privileges can be arranged for interested parties, who may be outside the firewall.^{1,2}

* * *

Copy to:

M. Butler
P. Kelley
E. Lessard
A. McNerney
P. Pile
T. Roser

Attachments:

1. BAF Commissioning and Acceptance Plan
2. Acceptance Plan for Operation of TTB with Low Mass Ions and RHIC with Deuterons

¹ http://www.cadops.bnl.gov/AGS/Accel/SND/tvdg_ttb_usi.htm

² http://www.cadops.bnl.gov/AGS/Accel/SND/baf_sad.htm